50

G R S IX 5]

Previous references 1878-79 191 (Education)

File No /

Serial Nos ~~1-9~~ 1+4610

Later references

GENERAL AND REVENUE SECRETARIAT

Serial Nos ~~1-9~~ + 4 — 10

Mayor ~~Part~~ B for February 1879

SUBJECT

Instructions ~~regarding~~ the Department for which the Upper Department Students of the School of Engineering + Natural Science are to be trained &c

Indexed

W D 88—GPB—50 000—24 7 16

Notes

Memo 12 in 5-7

No 1758-dy 23rd Septr/78

The Director of Public Instruction submits the results of the examination held in August last of the students of the School of Engg & Natural Scn as reported by the Principal on the 13th Septr/78

Upper dept

2 In this dept there are 4 students and their examination embraced the subjects included in the first half of their appointed Course of Study This term was completed in July, but on my & the illness of 2 of the students, the examinations were, with Mr Rice's permission, postponed till all 4 could attend. Out of a total maximum of 500 marks the number obtained by each student was noted as on the margin All have obtained the prescribed maximum of 1/3 on the whole The Principal remarks that none of the answering was

Thus he

Runga Rao — 476
Sitaram Rao — 474
Prahlada Rao — 384
Narayan Rao — 325

attributes to the fact that Ranga Rao has been dangerously ill for nearly a month before the examination, and Narayan Rao sick for 2 months. Seturam Rao was the only one who was able to attend regularly, and he lost much of the benefit of lectures by being kept back owing to the necessity of recapitulations to the others on their return.

Lower Dept

3 In this dept the Upper Subordinates' Class, consisting of 5 students, had the usual Quarterly Examination, with the results given in the margin. Arunda Rao, who passed a bad examination last time, has shown that he has exerted himself to the utmost since. The Principal describes him as active and intelligent, and doing better at practical work than at Mathematics.

4 The Lower Subordinates' Class is composed of 8 students.

These results seem most unsatisfactory for this Class, which is shown as open for 3 years. I shall therefore hold back the promotion of the whole Class pending results to be obtained, and keep the present 3rd year students in the Class. X

The subjects of study prescribed for the last term

	Maximum 600
Kaderveln	475
Arunagam	424
Srinivasa Rao	392
Arunda Rao	357
Raghunath Aryangar	320

3

	Maximum 500
Vagarathnam	460
Abbaya Naidu	354
Sivaram Pillai	351
Nagasukhamani	339
Lakshman Perumal	328
Nagalingam	319
Sreenivasan	173

was absent. The number of marks obtained by each is given in the annexed statement. Nagarathnam is far ahead of all her class-fellows, and is stated to have passed a most creditable examination, and displayed a great taste for drawing. In this subject Sreenivasan has completely failed, gaining only 27 marks out of 300, whereas Nagarathnam has 270 &c.

Yes

× See para 5 of Cl. No. 98 dated 7/7/77 Sreenivasan is also failing and kept back from the School & Studentship on account of his inability to pass the Scholarship Examination &c. Vide para 8 of Cl. No. 98 dated 7/7/77

Nagarathnam is also failing and kept back from the School & Studentship on account of her inability to pass the Scholarship Examination &c. Vide para 8 of Cl. No. 98 dated 7/7/77

Yes

Sreenivasan is also failing and kept back from the School & Studentship on account of his inability to pass the Scholarship Examination &c. Vide para 8 of Cl. No. 98 dated 7/7/77

Yes

5 The foregoing orders were duly
communicated to the Director
of Public Works per No 5798/17
of the 24th Oct 78)

6 In reply the Director of Public Instn reports as follows

No 2137 of 1st November 78

7 With regard to the Upper Dept, the Principal of the Engl School explains that his statement that none of the answering was conspicuously good was not designed to convey the idea that the results of the examination were unsatisfactory, but that one or two of the students who were expected to distinguish themselves by surpassing all ~~that~~ who had yet appeared in former examinations of the school had not done so, which Mr Lyman attributed to sickness. To shew that the students really did very well, ~~that~~ being equally as severe

5 examination (in proof of which the question papers are forwarded), the average percentage of marks obtained on the total maximum was 51 8, against 39 4 on that occasion, or rejecting those who failed then, 46·5

8 The loss which the students sustained by absence through illness has, it is stated, been already made up Formerly the term ended on the 19th of July, it was extended to the 15th of August The extra time is said to have been spent in recapitulation, and those students who could not attend obtained notes from those that were present The only subjects remaining on which supplementary lectures will be given without the regular Course being interfered with, are Co-ordinate Geometry of Three Dimensions, for which there being no text book Containing only what is

is required for the Students
1/ Hymer's & Frost's books being
meant for Wranglers or Honor
men), as much as is needed is
being written out to be printed
for the use of the Students
The other subject is some
problems from Wiesbach
and Todhunter's larger
book, but not Compulsory
for the Course
I Mr Lyman also points
out that the Students obtained
during their half Course a
thorough working Knowledge
of the Integral Calculus
which will greatly aid them
in the work of their present
term, while their predecessors
knew nothing of this subject
They also gained a prelim-
inary knowledge of Che-
mistry, which their predecessors
had not studied

Kind Circumst

to consider that the results of the Course are satisfactory. The Director feels that he has every reason to believe the students are devoted to their professional studies and have worked hard to do their best, putting them back in their Course would therefore probably be felt as so great a stigma as seriously to interfere with their future progress. The students who have hitherto passed out of the School are said to be doing well, and it is stated that there seems no reason to doubt that Mr Lyman, who takes a warm interest in his work, will bring the present ~~in~~ class of students up to the required standard, so that they will do equal credit to the State, without the enforcement of this step. Mr Rice ventures to hope ~~that~~ that the order may be

11 In regard to the Lower Dept. 2nd Class, Strinivasan has been informed of the decision in his Case Similar action has been taken in the Case of Parasuraman, and his name has been removed from the list

11 Under the circumstances now explained the Chief Secretary, perhaps, be pleased to reconsider the orders conveyed in para 2 of this Office No. 5798 of 4th Ultimo so as to permit the Students of the Upper class to continue the subjects prescribed for the 2nd half of their course

Chief Secretary
12/11/78

His not explained
Mr Parasuraman
absented himself
from Examn.

I presume him to be
Sales Packing Supdt

The results as previously reported in para 2 of this Memo, have called for fresh Sales Packing & the Superintendent has conceded the new Rule but has been to Sales Packing I see no reason to modify the previous order Before the 4 Students can attend the School regularly and the others being taken by Seniority Jay must be waited

[illegible]

7

been called for I
entertain some doubt
whether the progress
made has been as satis
factory as may have
been expected, but on
the responsibility of
the Principal, and
recommendation made by
the Director, I permit
the Students of the
upper Class to contin
ue the subjects present
ed for the 2nd half
of their course

Wm / DG 18/11
19/11

12 The foregoing orders were
duly communicated to the
Director of Public Instruction

13 In Continuation of his
letter No 2157 dy the 1st Nov
/78, the Director requests
instructions as to the Dept.
in which the 4 students of
the School

No 6831/E19 dy 21st Nov/78

No 2323 dy 20th Nov/78

of Engineering and Natural Science are to be respectively prepared during the remaining half of their Course The marks obtained by them were noted as in the margin

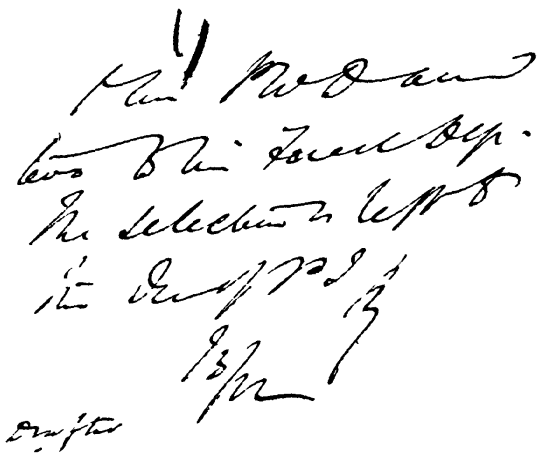
14 Prahlada Rao on entering expressed a desire to join the Revenue Survey Dept. He now, however, wishes to enter the Public Works Dept, as do all the others, who elected first at the time of their admission

may the Rev'd Secy and Comr of Forests be consulted as to the requirements of their respective Depts,

H. J. Thuillier
3/12/75

	Max 800
Runga Rao —	471
Sitaram Rao —	474
Prahlada Rao —	384
Narayan Rao —	325

Re Asst Comr may be consulted in accordance with Govt Resolution of 4th March 1875



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8-18

11-4 1878 U2774

From The Director of Lab Instruction

To Secretary to Chief Commissioner, General Department

Dated 23 September 1878

Despatched 25

Received 26 11

ENCLOSURES NO

General No 1788 } 1878—79
No

Submitting report on the Quarterly Examination held in the Students of the Engineering School

Section Engr
File No 13-78
Serial No 1

S
8-18

104 1878 0/2774

From The Director of Lab Instruct.

To Secretary to Chief Commissioner, General Department

Section Eor
File No 13 - 78
Serial No 6

Dated 23 September 78
Despatched 25
Received 26 11
ENCLOSURES NO

General No 1758 } 1878 —79
No

Submitting report on the Quarterly Examination of the Students of the Engineering School

for Perusal
26-9-78

No 1788

Office of the Director of Public Instruction
Bangalore, 23d September 1878

2

From,
The Director of Public Instruction
Mysore

To,
The Secretary to the Chief Commissioner
of Mysore

Sir,

I have the honour to submit for the Chief Commissioner's information the results of the examination held last month of the students of the School of Engineering and Natural Science, as reported by the Principal on the 13th instant

In the Upper Department there are 4 students, and their examination embraced the subjects included in the first half of their appointed course of study. This term was completed in July, but owing to the illness of two of the students, the examination was, with my permission, postponed till all four could attend. Out of a total maximum of 1000 marks, the minimum obtained by students

Ranga Rao	476
Sitaram Rao	474
Prahlada Rao	382
Narayan Rao	

obtained the prescribed minimum of one third on the whole The Principal remarks that none of the answering was conspicuously good This he attributes to the fact that Ranga Rao had been dangerously ill for nearly a month before the examination, and Narayan Rao sick for two months Sitaram Rao was the only one who was able to attend regularly, and he lost much of the benefit of lectures by being kept back owing to the necessity of recapitulation to the others on their return

3 In the Lower Department the upper subordinates' class, containing 5 students, had the usual quarterly examination, with the results given in the margin Ananda Rao, who passed a bad examination last time, has shewn that he has exerted himself to the utmost since The Principal describes him as active and intelligent, and doing better at practical work than at mathematics

Maximum 600	
Kadiveelu	475
Arumugam	424
Srinivasa Rao	392
Ananda Rao.	357
Raghunath Aiyangar	320

4

4 The lower subordinates' class is composed of 8 students, of whom one (Parasuraman) was absent The number of marks obtained by each is given in the annexed statement Nagaratnam is far ahead of all his class fellows and is stated to have passed a most creditable examination and displayed a great taste for drawing In this subject Srinivasan has completely failed, gaining only 27 marks out of 300 while Nagaratnam has 270

Maximum 500	
Nagaratnam	460
Abbaya Naidu	354
Sivaramaiah	351
Nagasikhamani	339
Lakshmana Perumal	328
Nagalingam	314
Srinivasan	173

I have the honour to be,
Sir,
Your most Obedient Servant,

Director of Public Instruction

9
8-18

1878

From
The Secretary to the
Chief Commissioner

To
The Director of Public Instruction

Section — Educ
File No 13-78
Serial No 24

Dated Bangalore 24th Oct 78
Despatched — " —
Received 28 Oct 78

Enclosures No —

General No 5798
E No 17

Pattern observatories on the results of the Examination of the Civil Engineering and Natural Sciences

Diary to 215
To the Surveyor 683 19 28

9/

6

General N: 5798
E 17

Dated 24th October 1878

Section - Exam
File No 3-17-37
Ser' I 'o 3

Read

Letter from the Director of Public Instruction No 1788 of 23d Septr 78

Order thereon

In the above letter the Director of Public Instruction reports the results of the examination held in August 78 of the Students of the School of Engineering & Natural Science

2- The 4 students in the Upper Dept, who completed the first half of their Course in July last are reported to have all obtained the proceeded Equal No of Marks ~~in succession of one third on the whole~~ as shewn in the margen, ~~but it is remarked~~ by the Principal, that the Ist Case was a Paper question ~~upon which the Answers from~~ the Students were conspicuously good, ~~owing~~ ~~to the fact that Runga Row and Narayan Row were~~ Lecturers of the Students

No of marks obtained out of a maximum of 800

Runga Row — 476
Sitaram Row — 474
Prahlada Row — 384
Narayan Row — 325

sick and that Sergeant Cox who was the only one who was able to attend regularly lost much of the benefit of lectures by being kept back owing to the necessity of recapitulation to the others on their return. These results appear to the C.C most unsatisfactory for this class which is to turn out officers for the depts He therefore, insists that the further course should not be proceeded with until more satisfactory results have been obtained, and that the present term should be occupied in the subjects of study prescribed for the last term

The result of the examination of the 5 students in the 1st class Lower Dept has been favorably reported on the number of marks have prevented from regular attendance by illness. The results of the course just expended is considered satisfactory, and the Captain Commandant is pleased that in consequence of the present course the subject of study prescribed for that term will be completed. The period of the class will then be taken back but it is impossible for the capacity of students when class does not finish at the usual time, to be fixed

as follows

maximum 600

Kadirvelu	475
Armugam	424
Srinivas Rao	392
Ananda Rao	357
Raghunath Ayyangar	320

maximum 500

Nagaratnam	460
Abbaya Naidu	354
Sivaramalu	351
Nagasekhamani	337
Lakshman Perumal	328
Nagalingam	317
Srinivasan	173

4. Out of the 8 students in the 2d Class, Lower Dept one (Parasuraman) was absent, while the number of marks obtained by the remaining 7 was as shown in the margin. The Srinivasan, is reported to have completely failed in his subject, the Captain Adjutant observing during only 27 periods that he attended the class in the School. I am directed that he ~~ought~~ be told to leave the School as a student while he is not deserving of the scholarship of Rs 8 per month granted by Government. The Director of Public Instruction has suggested to expunge the

since No 2 Scholar Parasuraman has been absent from School can be satisfactorily explained

reason why Parasuramans failed to appear ~~by the examination~~ at the examination, should ~~be~~ ~~adopted~~. When ~~the~~ final orders will be passed in his case

5. The Director of Instruction has to be requested to submit his opinion on the working of the school

Secretary

To, The Director of Instruction
~~Chief Inspector of Weavers~~
~~Examining Assistants~~

Copy of Opinion of Director of Instruction has been requested under reference. Inspectress Lumsden & Appavoo Ramalingam, Chief Inspector of Weavers & Assistant Chief Inspector have also been requested to furnish their opinion on the working of the School

24/10

24/10

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69

2157 1878

From The Director of Lab Instructn

To Secretary to Chief Commissioner,
General Department

Section
File No
Serial

Dated 10 November

Despatched

Received 13 "

ENCLOSURES NO 8

General No 2157 } 1878 —79

Submitting a further report on the School of Engineering and Natural Science in connection with C. C. O No 5778 - E dated the 20th ultimo

No 2157

Office of the Director of Public Instruction
Bangalore, 1st November 1878

From, The Director of Public Instruction

To, The Secretary to the Chief Commissioner
of Mysore

Sir,

I have the honour to submit a further report on the school of Engineering and Natural Science in connection with C C C No 5778-617 of the 24th ulto &c

2 With regard to the Upper Department, the Principal explains that his statement that none of the answering was conspicuously good was not designed to convey the idea that the results of the examination were unsatisfactory, but that one or two of the students whom he expected to distinguish themselves by surpassing all who had yet appeared in former examinations of the school had not done so, which he attributed to sickness. To show that the students really do very well, he points out that, the test being equa as severe as in the previous corresponding examination (in proof of which the papers forwarded are herewith enclosed) the percentage of ma obtain

maximum is 518, against 394 on that occasion
or rejecting those who failed then, 465

The loss which the students sustained by
absence through sickness has been already
to a great extent made up For whereas the
term ended on the 19th of July, it was extended
to the 15th of August, or nearly a month The's
extra time was spent in recapitulation, and
those students who could not attend obtained
notes from those who were present The only
subjects remaining on which supplementary
lectures will be given (but these lectures need
not interfere with the regular course) are
Co-ordinate Geometry of Three Dimensions,
for which there being no text book containing
only what is required for the students, Hymer's
and Frost's books being meant for wranglers
or Honour men, as much as is needed is
being written out to be printed for the use
of the students The other subject is some
problems from Westrack and Todhunter's
larger book, but not compulsory for the course

4 Mr Lyman also points out that the students obtained during their half course a thorough working knowledge of the Integral Calculus which will greatly aid them in the work of their present term, while their predecessors knew nothing about this subject They also gained a preliminary knowledge of Chemistry, which their predecessors had not studied

5 Under these circumstances the Principal respectfully begs to hope that the Chief Commissioner may be pleased to consider that the results of the course are satisfactory I would add that I have every reason to believe the students are devoted to their professional studies and have worked hard to do their best, putting them back in their course would therefore probably be felt as so great a stigma as seriously to interfere with their future progress The students have hitherto passed out of the school doing very well, and there seems reason to doubt that

takes a warm interest in her work will bring the present class of students up to the required standard, so that they will do equal credit to the State, without the enforcement of this step I venture to express a hope therefore that the order may be reconsidered

In regard to the Lower Department, second class — Sivanandam has been informed of the decision in her case Similar action has been taken in the case of Parasuraman and her name has been removed from the list

I have the honour to be,
Sir,
Your most obedient Servant,

Director of Public Instruction

15

Euclid and Trigonometry

Runnie Mackam

I Show how to place from point equidistant

II - Describe a circle which shall pass through a given point, and touch the circumferences of two given circles

III From a given point inside two given circles which do not meet, draw straight lines such that the portions intercepted by each circle, may be respectively proportional to given lines,

IV. - Prove that the intersection of two spheres is a circle, -

V. Solve the following equation

$$\sin\theta + \cos\theta = \sqrt{2}$$

VI Find the logarithm of 128 to the base $\sqrt[3]{4}$

VII Show how to solve a triangle having given the three perpendiculars from the angles on the opposite sides,

VIII A tower 150 feet high throws a shadow 75 feet long on a horizontal plane Find sun's altitude, given

$\log 2 = .3010300$

$\log 6326 = 10.3010299$

$\log 63.27 = 10.3010300$

9 Find the roots of the equation

$\tan x + a \tan x = a + b.$

$A + B + C = 360°$

$\sin$

$\cos A \sin B \cdot \sin C + \cos B \sin A \sin C + \cos C \sin A \sin B)$

$+ \sin^2 A + \sin^2 B + \sin^2 C = 0$

Hydraulics

Mr Shaw Examiner

I State and explain Gay Lussacs law, as to volume and elastic force of vapours under change of temperature,

II How would you find the ~~elastic~~ specific Gravity of a liquid

III If the weight of a cubic inch of distilled water at 60° F be 253 Grains and if sp g of salt water be 1·026 what would be the pressure on a square inch, at the depth of 20 feet below the surface of the sea

IV Describe Nicholsons Hydrometer,

V What do you mean by respiration

VI Describe the syphon manometer

VII If a hemispherical bell be sunk under water till the surface of the water inside the bell bisects its vertical radius, find depth of mouth of bell -

VIII Show from the fundamental property of liquids that a free liquid surface must be horizontal.

16

Mensuration

Mr Lyman Examine

I Give an approximate Rule for finding the length of the arc of a circle

A bridge is 30 feet span, 6 feet rise — Find length of Entrados —

II Each edge of a regular Tetrahedron of Cast iron is ten feet long. Find its weight —

III Find the weight of pure water, contained in a hollow sphere 3 feet internal diameter

IV State the rule for finding the area of a Parabola,

V. The length of a Railway Cutting is 5 Chains, breadth at bottom 28 feet with slopes 1½ to 1 depths at ends 9 and 18 Ground rises sideling — Find number of cubic yards in Cutting

Surveying - Levelling Examiner Mr Lyons

Describe in detail what manner of checking your work you would employ when locating a Claim survey.

II State how you would measure a line down a hill sloping at an angle of 30°

III The sides of a triangle are 7682, 5271 4389 links Find the area using logs.

IV How would you tabulate and calculate offset areas

V Sketch a Y Level

VI State the usual allowance for curvature

VII How would you check a level book arithmetically

Algebra and
Theory of Equations

18

Examiner Lala Gul BCE

I Solve the following Equation

$$x + y + \sqrt{x+y} = 6$$
$$x^2 + y^2 = 10$$

II Thirty cubic feet of mortar in the proportion of one and half sand to one of lime has to be prepared out of two kinds of mortar already mixed in the proportion of three to one and one to one. What quantities of each of the latter must be taken for the required mixture.

III Shew that

$$\frac{1}{(a-x)^4} = \frac{1}{a^4}\left(1 + \frac{2\,3\,4}{1\,2\,3}\frac{x}{a} + \frac{3\,4\,5}{1\,2\,3}\frac{x^2}{a^2} + \frac{4\,5\,6}{1\,2\,3}\times\frac{x^3}{a^3}\right)$$ and hence prove that

$$1 + \frac{2\,3}{1\,2} + \frac{3\,4}{1\,2} + \frac{4\,5}{1\,2} + \cdots\cdots \frac{n(n+1)}{1\,2} = \frac{n(n+1)(n+2)}{1\,2\,3}$$

IV Prove that every continued fraction recurs is equal to one of the roots of a quadratic Equation with rational coefficients

placed to as

V Rs 8-5-4 are placed in your hands You are required to Engage for the amount coolies male and female at 2¼ As and 1⅓ As respectively, such that there may be about half as many more woman coolies as there are man coolies Find how many of Each class will you Engage

VI If an Equation has Equal roots shew that these may be found & the Equation depressed

Solve $x^7 + 5x^6 + 6x^5 - 6x^4 - 15x^3 - 3x^2 + 8x + 4 = 0$

Determine the number and situation of the real roots of

$$x^4 - 6x^3 - 37x^2 + 222x - 270 = 0$$

VIII Approximate by Horners Method the roots of the following Equation which lies between 7 & 8

$$2x^4 + 5x^3 + 4x^2 + 3x - 8002 = 0$$

placed so as

Statics and Dynamics 2.

W. Sutherland

I Three forces acting upon a parallelogram A B C D are represented in magnitude and direction by A B, D C, B D. Find the magnitude and direction of a fourth force which will keep the parallelogram at rest.

II Investigate the conditions of Equilibrium of forces acting in a plane first on a particle secondly on a rigid body.

III If G be the centre of gravity of a triangle A B C and G_A, G_B, G_C be joined then

$$3(G_A^2 + G_B^2 + G_C^2) = AB^2 + BC^2 + CA^2$$

IV If the weights of one pound, two pounds, and three pounds be suspended at the distances of six, twelve, and eighteen inches from the fulcrum on one arm of a straight lever and two pounds, three pounds, and four pounds be suspended at the distances of four, ten, & twelve inches from the fulcrum on the other arm. Find where a weight of one pound must be placed so as to keep the lever in Equilibrium

V A small weight W is moveable on a smooth rod whose inclination to the horizon is α_1 and to this rod weight W_2 is moveable on another smooth rod in the same vertical plane whose inclination is α_2, a slender string connecting the two carries a weight W shew that

$$\frac{\tan \alpha_1}{\tan \alpha_2} = \frac{W + 2W_2}{W + 2W_1}$$

VI A uniform ladder 10 ft long rests with one end against a smooth vertical wall and the other on the ground, the coeff of friction being half find how high a man (whose weight is four times that of the ladder) may rise if it begins to slip the foot of the ladder being six feet from the wall

VII If a body is projected with velocity u in the direction of a uniform force f and if v be the velocity and s the distance described at the end of the time t prove that

$$\frac{v - u}{f} = \frac{2s}{v + u} = t$$

VIII Particles are projected from the same point in a vertical plane with velocities which vary as $\frac{1}{\sin \alpha}$, α being the

VIII cm²

angle of projection the locus of the vertices of the parabolas described is an Ellipse whose horizontal axes is double the vertical axes

IX If a body of weight W be dragged up a rough inclined plane of the horizon at an angle of α thro' a space s & μ being the coeff^t of friction for motion Shew that the work done is

$$W(\sin\alpha + \mu\cos\alpha)\, s$$

If $W = 30$ lbs $\alpha = 45°$ $s = 20$ ft

$\mu = 2/7$

Find the work done.

Coordinate Geometry

Two and Three Dimensions

Mr Salmon

I Find the Equations to the diagonals of a parallelogram formed by the four straight lines $x = a$, $x = a'$, $y = b$ $y = b'$

II Shew that the three perpendiculars thro' the middle points of the sides of a triangle meet at a point

III To find the Equation to a circle when centre and radius are given, the coordinates being rectangular

of circles be described on the sides of a triangle as diameters they will intersect in the points where the perpendiculars from the opposite angles meet the sides or the sides produced

IV Shew that the General Equation $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$ represents an Ellipse an Hyperbola or a Parabola according as $B^2 - 4AC$ is < 0 or $= 0$

If $BE - 2CD = 0$ at the same time that $B^2 - 4AC = 0$ then the Equation represents two parallel straight lines

V Find the Equation to the normal at any point (x_1, y_1) on the parabola whose Equation is $y^2 = 4ax$

V cont

If PG_T be the normal at (x_1, y_1) meeting the axes at G_T & PT be the tangent at the same point meeting the tangent at the vertex at T Find $G_T T$

VI Find the Equation to the Ellipse referred to any two conjugate diameters

If a rod slide between a vertical wall and a horizontal plane any point in it traces out an Ellipse

VII If a tangent at any point of an Hyperbola cut the tangents at the vertices T and T' then $AT \cdot A'T' = b^2$

VIII Find the Equation to a plane which is parallel to given plane and passes thro' a given point

IX Find the Equation to an Hyperboloid of two sheets

X Give the Equations for finding the radius of a sphere passing thro' four given points and the coordinates of its centre

XI Find the Equation to a Paraboloid of revolution

1878 40

Theory of Drawing 25

Jan Sebryer

I A straight line three inches in length is inclined at 30° and 45° to the horizontal and vertical planes respectively. Find the Horizontal and Vertical projections

I Construct the projections of a square of one inch situated in a plane, inclined at 30° and 60° respectively with the horizontal and Vertical planes such that one of its diagonals is inclined at 60° to the vertical trace of the given plane

II Suppose a cone base half an inch in diameter height two inches stands on the above plane with its axes at right angles but find its horizontal and vertical projections

IV Construct the section of a cylinder by a plane inclined at 30° to its axis

v
S – 18

26 1878 79

To The Director of
Public Instruction

S/23 4th Income
Corps " "

Section 2 Cavalry
File No 3-128
Ser 1878 6

No 6831 C
S 19

In reply to the 4th Indorsement of 21st November 1878, herewith the Indorsements of the Inspector General to Communicate Salaries prescribed for the 2nd Military District

From the Adjutant General's Office

General No 6831

E 19

dated 21st November 1878

Read Letter No 2157 of 1st Nov 78 from the Director of Public Instruction, submitting a further report on the School of Engineering and Natural Science and requesting that the order conveyed in para 2 of this office Progs No 5798/17 of 24th Oct 78, regarding the subjects of study in the Upper Dept during the present term, may be modified

Order thereon

The Comr observes that the order referred was passed on the report submitted by the Principal of the School. If the statements now made had been previously made, the order would not have been called for. Mr. Gordon entertains some doubt whether the progress made has been as satisfactory as may fairly be expected, but on the responsibility of the Principal, and recommendation made upon proceedings held by the Principal of the School, he has no objection to the subjects of study in the Upper Dept being modified as proposed

by the Director, permits the
students of the Upper
Classes to continue the subjects
prescribed for 2nd half of
their Course

Secretary

To
The Director of Public Instn

In Communication
herewith by the Board
of Pg, the Chairman
Vice Chairman, &c are
a Committee of Three
& Inspectors, however
who Committee & allow
the Students of the
Normal Schools
to proceed with
the Studies prescribed
for the Second half
of their Course

EC/11

I
S-15

R 1634 1878. U 3514

From The Director of Pub Instruction

To

Secretary to Chief Commissioner,
General Department

Section— Gen
File No— 378
Serial No— 76

Dated 20 November 78

Despatched

Received 22 Nov 78

ENCLOSURES NO

General No 2323 } 1878—79
No

Requesting instructions as to the Dept for which the Upper Dept students of the School of Engineering and Art are to be trained during the remaining half of their Course of study

for Director
22-Nov-78

Gen 75/11

No 2322

Office of the Director of Public Instn.

Bangalore, 20th Novem

251

From,

The Director of Public Instruction

To,

The Secretary to the Chief Commissioner of Mysore

Sir,

In continuation of my letter No 21
the 1st instant, I have the honour to req
instructions as to the Departments for wh
the four students of the Upper Departm ent
the School of Engineering and Natural Sc

Received on 7.11.78

	Maxm 800
Ranga Rao	476
Sitaram Rao	474
Prahlada Rao	384
Narayan Rao	325

are to be respectively
prepared during the
remaining half of
course of study. T
marks obtained by
on the half course were as in the margin

2 Prahlada Rao, on entering expres
desire to join the Revenue Survey Depar
He now, however, wishes to enter the Public
Department, as do all the others, who el
at the time of their admission.

I have the honour to

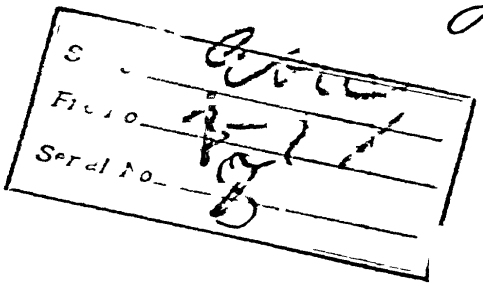
Sir,

Your obedient

I
S-18

1878 3184

To
The Director
Pub Instruction



Jany 1879

Dated 28th Oct. 78
Recd 30th Do
Mr Frost
117

Hon No 2323 of 20th Oct 78

State that the only feasible arrangement will be to assign two of the students to the 1st 60 & two to the Front Sup[t]

To Mr [illegible]

32

No 8057 / 1117 of 28th Dec 1878

Pro of the C Coun of Anyson

Read letter No 2323 of 20 Nov 78 from the Dr of Public Instruction soliciting instructions as to the Departments for which the four Students of the Upper Dept in the School of Engineering and Natural Science are to be respectively prepared during the remaining half of their Course of Study.

Order thereon.

The C Coun ~~having~~ consulted ~~them~~ the Chief Engr. considers that, the only feasible arrangement will be to assign two of the Students to that ~~Roebuckside~~ Dept and two to the Point Dept

X as the Services of the 4 Students cannot be dispensed with by the Prof

The

2 The selection they [illegible] can not be made
because as
~~[illegible]~~ the Director of
Public Instruction they
[illegible]

[signature]
Secy

To
The Dir. of P. Instn.
Chief Engineer
Com. of Forests

S
S-1824

S-L-R-3834
R 199-1879

04864
P&T

From The Director of Public Instruction

To

Secretary to Chief Commissioner,
General Department

Section
File No
Serial No

Dated 24 January
Despatched 25
Received 25

ENCLOSURES NO

General No 2777 } 1878 —79
No

Sending final 2 cos statements of the Upper Dept, Sch of Engg ons have been selected for final dept

25-1-79

R-25/1/79

27/1

23

2 The selection Dept. cannot be made
Reasons as
~~Left~~ to the Director of
Public Instruction may
think best

J. B. Sayre

To
The Dir. of P. Instn.
Chief Engineer
Civil & Forests

S-1834 S&L-R-3834 R 178-1879 04864

From The Director of Public Instruction

To

Secretary to Chief Commissioner, General Department

Section
File No 1-27
Serial No 9

Dated 24 January 1879
Despatched 25
Received 25

ENCLOSURES NO

General No 2777 } 1878 —79
No

Send 2 cos statements of the Upper Dept, Sch of Engineers have been selected for Trial Dept

25-1-79

R2-25/1/79

Secy to Chief Commr

No. 2777

Office of the Director of Public Instruction
Bangalore, 24th January 1879

From

The Director of Public Instruction

To, The Secretary to the Chief Commissioner
of Mysore

Sir,

Referring to C C O No 8057-1117 of the 28th ultimo, I have the honour to state that, after consultation with the Principal and the students of the Upper Department, School of Engineering and Natural Science, the two marginally noted have been selected as candidates for the Forest Department

Prahlada Rao
Narayan Rao

I have the honour to be
Sir,
Your most Obedient Servant

Director of

Jork

Read

Letter from the Director of Public Instruction No 777 dy 24th Inst, stating that, after consultation with the Principal and the students of the Upper Dept, School of Engineering and Natural Science, Prahladu Rao and Narayan Rao have been selected for the Forest Dept

Order thereon

Approved

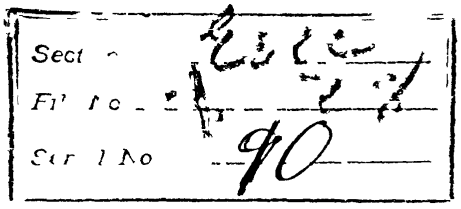
Dy Secretary

To

The Director of Public Instn

General No: 9695
E - 21

Dated 3 February 1879



5

5 – 5

1879

From

99

To The Director of
Public Instruction

Dated 3rd February

Despatched " —— "

Received

Enclosures No " ——

Genl No 9695 ✓
& No 21

Approving the selection
made in his No 2777 dated
24th Ultimo of Prahlad
Rao & Annaji Row to
the Forest Department